

What is claimed is:

1. A manufacturing method of a support body for a pneumatic run-flat tire including a support portion disposed inside a pneumatic tire and bearing a load when run-flat driving and leg portions provided at both sides in the direction of the tire width of the support portion and abutting against a rim, comprising:

a center portion forming process of forming a tire width direction center portion of said support portion;

an outside portion forming process of forming tire width direction outside portions of said support portion as separate bodies from said tire width direction center portion;

a leg portion forming process of forming the leg portions comprising elastomer integrally to the rim side end portions of said tire width direction outside portions; and

a coupling process of coupling said tire width direction outside portions formed with said leg portion to both sides of said tire width direction center portion.

2. The manufacturing method of the support body of the pneumatic run-flat tire of claim 1, wherein said elastomer is rubber, and said leg portion forming process performs injection molding and vulcanization on the rubber configuring said leg portion to said tire width direction outside portion.

3. The manufacturing method of the support body for the pneumatic run-flat tire of claim 1, wherein said elastomer is rubber, and said leg portion forming process transfer-molds and vulcanizes the rubber configuring said leg portion to said tire width direction outside portion.

4. The manufacturing method of the support body for the pneumatic run-flat tire of claim 1, wherein said elastomer is rubber, and said leg portion forming process compression-molds and vulcanizes rubber configuring said leg portion in said tire width direction outside portion.

5. The manufacturing method of the support body for the pneumatic run-flat tire of any one of claims 1 to 4, wherein said tire width direction center portion and said tire width direction outside portion are formed of metal, and said coupling process, partially superposes and welds said tire width direction center portion and said tire width direction outside portion.

6. The manufacturing method of the support body for the pneumatic run-flat tire of any one of claims 1 to 4, wherein said tire width direction center portion and said tire width direction outside portion are formed of metal, and said coupling process butt-welds an end portion of said tire width direction center portion and the end portion of said tire width direction outside portion.

7. The manufacturing method of the support body for the pneumatic run-flat tire of any one of claims 5 or 6, wherein the welding portion and said leg portion are separated by at least 10 mm or more.

8. The manufacturing method of the support body for the pneumatic run-flat tire of any one of claims 1 to 4, wherein said coupling process joins said tire width direction center portion and said tire width direction outside portion by rivets.

9. The manufacturing method of the support body for the pneumatic run-flat tire of any one of claims 1 to 8, wherein the coupling portion between said tire width direction center portion and said tire width direction outside portion is provided at a position not contacting the internal surface of the tire when run-flat tire driving.

10. The manufacturing method of the support body for the pneumatic run-flat tire of any one of claims 1 to 5 and claim 8, wherein by changing an overlap dimension between said tire width direction center portion and said tire width direction outside portion, so that the support bodies for pneumatic run-flat tires of a plurality of types of different sizes are obtained.

11. The manufacturing method of the support body for the pneumatic run-flat tire of any one of claims 1 to 9, wherein, in said center portion forming process, a plurality of said tire width direction center portions of different sizes are manufactured, and in said coupling process, a plurality of said tire width direction center portions of different sizes are, respectively, coupled with said tire width direction outside portions thereby the support bodies for a plurality of pneumatic run-flat tires of different sizes are obtained.

12. The manufacturing method of the support body for the pneumatic run-flat tire of any one of claims 1 to 9, wherein, in said outside portion forming process, a plurality of said tire width direction outside portions of different sizes are manufactured, and in said coupling process, said tire width direction center portions are coupled with a plurality of said tire width direction outside portions of different sizes, thereby the support bodies for a plurality of pneumatic run-flat tires of different sizes are obtained.

13. The manufacturing method of the support body for the pneumatic run-flat tire of any one of claims 1 to 9, wherein, in said leg portion forming process, a plurality of said tire width direction outside portions, which are integrally formed with the leg portions of different sizes, are manufactured, and in said coupling process, the plurality of tire width direction outside portions of different sizes, which are integrally formed with said leg portions, are coupled with said tire width direction center portions, thereby the support bodies for a plurality of pneumatic run-flat tires of different sizes are obtained.